WHAT IS CLAIMED IS:

1   1.   An information handling system comprising:

2   a motherboard;

3   components coupled to the motherboard and operable to process information;

4   a trusted bus operable to securely communicate information between the

5   components;

6   an integrated keyboard operable to accept user inputs;

7   an integrated pointing device operable to accept user inputs;

8   a microcontroller interfaced with the keyboard and pointing device, the

9   microcontroller operable to convert keyboard and pointing device user

10   inputs into HID packets and to embed the HID packets as messages on

11   the trusted bus;

12   a state machine associated with the motherboard and interfaced with the

13   trusted bus, the state machine operable to extract the HID packets from

14   the trusted bus; and

15   HID trusted registers interfaced with the state machine and operable to provide

16   the HID packets to one or more of the components.

1   2.   The information handling system of Claim 1 wherein the trusted bus

2 comprises a SMBus.

1   3.   The information handling system of Claim 2 wherein the trusted bus

2 comprises a dual SMBus for bi-directional communication between the state machine

3 and the microcontroller.

1   4.   The information handling system of Claim 1 wherein the trusted bus

2 comprises a SPI bus.

1   5.   The information handling system of Claim 1 further comprising:

2   an external controller interfaced with the motherboard, the external controller

3   operable to accept user inputs from a external keyboard and to convert

4   the external keyboard inputs into HID packets; and

5   HID non-trusted registers interfaced with the external controller and operable

6   to provide the external keyboard input HID packets to one or more of

7   the components.

1   6.   The information handling system of Claim 5 wherein the components

2   comprise a chip set for communicating with external devices and the state machine

3   comprises firmware associated with the chipset.

1   7.   The information handling system of Claim 1 wherein the integrated

2   pointing device comprises a touchpad.

1   8.   A method for communicating user inputs to an information handling

2   system, the method comprising:

3   detecting user inputs at an integrated pointing device and an integrated

4   keyboard;

5   communicating the inputs to a common microcontroller;

6   converting the inputs with the microcontroller into HID packets;

7   embedding the HID packets as messages on an internal motherboard bus; and

8   extracting the HID packets at the motherboard for processing.

1   9.   The method of Claim 8 wherein embedding the HID packets further

2   comprises embedding the HID packets as SMBus messages on an SMBus coupled to

3   the motherboard.

1   10.   The method of Claim 9 wherein the SMBus comprises a dual SMBus

2   for bidirectional communication between the microcontroller and motherboard.

1   11.   The method of Claim 9 wherein extracting the HID packets further

2   comprises:

3   receiving the SMBus messages at a state machine associated with the

4   motherboard; and

5   transferring SMBus messages having HID packets to HID registers accessible

6   to one or more information processing components.

1   12.   The method of Claim 9 wherein the information handling system
2 comprises a portable information handling system.

1   13.   The method of Claim 12 further comprising:
2   detecting user inputs at an external input device;
3   communicating the external input device inputs to a second microcontroller;
4   converting the inputs with the microcontroller into HID packets for
5   communication to the motherboard;
6   processing HID packets from the integrated pointing device and integrated
7   keyboard as trusted packets; and
8   processing HID packets for the external input device as non-trusted packets.

1   14.   The method of Claim 8 wherein the internal motherboard bus
2 comprises a I2C bus.

1   15.   The method of Claim 8 wherein the internal motherboard bus
2 comprises a SPI bus.

1   16.   A system for communicating trusted user inputs from a user input
2 device to information processing components of an information handling system, the
3 system comprising:
4   a microcontroller operable to accept user inputs from an integrated keyboard
5   and an integrated pointing device, to convert the user inputs into a
6   format readable by processing components, and to embed the
7   formatted user inputs into SMBus messages;
8   an SMBus interfaced with the microcontroller and operable to transfer the
9   formatted user inputs to a motherboard of the information handling
10   system; and
11   a processing component interfaced with the SMBus and operable to extract the
12   formatted user inputs from the SMBus messages.

1   17.   The system of Claim 16 wherein the formatted user inputs comprise
2 HID packets.

1   18.   The system of Claim 17 wherein the processing component interfaced
2 with the SMBus comprises a state machine and one or more HID registers.

1   19.   The system of Claim 18 wherein the SMBus comprises a dual SMBus
2 operable to communicate bi-directionally between the microcontroller and the state
3 machine.

1   20.   The system of Claim 17 further comprising a second microcontroller
2 operable to accept user inputs at an external keyboard and to provide the external
3 keyboard inputs to the motherboard through a non-trusted communication channel.